Thermal Printer User's Manual

2824
2844

Zebra

Zebra Technologies Corporation

User's Manual No. 980381-001 Rev. A

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FOREWORD

This manual provides installation and operation information for the 2824 and the 2844 series printers, manufactured by Zebra Technologies Corporation, Camarillo, California.

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TRADEMARKS

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LP 2824, TLP 2824, LP 2844 and TLP 2844 Thermal Printers

CE

European Council Directive		Compliance to Standards	
89/336/EEC	EMC Directive	EN 55022-B 1998	RF Emissions control
	EMC Directive	EN 55024 1998	Immunity to Electromagnetic Disturbances
92/31/EE	EMC Directive	EN 61000-3-2	Harmonic Emissions
92/31/EE	EMC Directive	EN 61000-3-3	Voltage Variation
	CB Scheme	EN 60950 1991 A1, A2, A3, A4	Safety

FCC - DECLARATION OF CONFORMITY:

FC

Models: LP 2824, TLP 2824, LP 2844 and TLP 2844 conform to the following specification:
FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109(a) Class B digital device

Supplemental Information:
This device complies with Part 15 of the FCC Rules. Operation is subject to the following Two Conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

INDUSTRY CANADA NOTICE:

This device complies with Industry Canada ICS-003 class B requirements.

Cet equipement est conforme a l'ICS-003 classe B de la norm Industrielle Canadian

WE NEED TO HEAR FROM YOU

We Need To Hear From You!

To Establish Your Warranty Period And Provide Access To Technical Support, Send Us Your Product Registration Card Today!

To establish your warranty period and provide access to technical support, send us your product registration card today.

RETURN MATERIALS AUTHORIZATION

Before returning any equipment to Zebra for in warranty or out of warranty repair, contact Repair Administration for a Return Materials Authorization (RMA) number. Repack the equipment in the original packing material and mark the RMA number clearly on the outside. Ship the equipment, freight prepaid, to the address listed below:

Zebra RMA, USA
1001 Flynn Road
Camarillo, CA. 93012
Phone: +1 (805) 579-1800
repair@zebra.com

Label Printers:
Zebra Technologies, Europe
Zebra House
The Valley Centre, Gordon Road
High Wycombe
Buckinghamshire HP13 6EQ, UK
Phone: +44 (0) 1494 472872
FAX: +44 (0) 1494 450103

Card Printers:
Zebra Technologies, Europe
Zone Indutrielle, Rue d'Amsterdam
44370 Varades, France
Phone: +33 (0) 240 097 070
FAX: +33 (0) 240 834 745

SHOCK HAZARD WARNING:

The printer and power supply should never be operated in a location where either one can get wet. Personal injury could result.

MEDIA AND RIBBON WARNING:

Always use high quality, approved labels, tags and ribbons. If adhesive backed labels are used that DO NOT lay flat on the backing liner, the exposed edges may stick to the label guides and rollers inside the printer, causing the label to peel off from the liner and jam the printer. Permanent damage to the print head may result if a non-approved ribbon is used as it may be wound incorrectly for the printer or contain chemicals corrosive to the print head. Approved supplies can be ordered from your dealer.

RELOADING HINT:

If labels or ribbon run out while printing, DO NOT turn the power switch OFF (0) while reloading or data loss may result. The printer automatically restarts after you load a new label or ribbon roll.

STATIC DISCHARGE:

The discharge of electrostatic energy that accumulates on the surface of the human body or other surfaces can damage or destroy the print head or electronic components used in this device. DO NOT TOUCH the print head or the electronic components under the top cover.

THERMAL PRINTING:

The print head becomes hot while printing. To protect from damaging the print head and risk of personal injury, avoid touching the print head. Use only the cleaning pen to perform maintenance.

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1
Installation and Operation

This section provides information on the installation and operation of the printer.

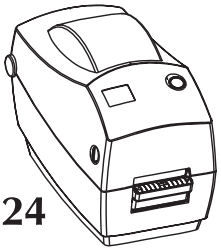
The printer is a low cost, desktop thermal printer. The printer is specifically designed for printing labels, tags or continuous receipts (with or without bar codes) from any DOS™, Windows™ or ASCII-based compatible host.

There are four models of printer. Many illustrations in this manual show the wide printer. While there are some physical differences among them, you can operate all printers using the same procedures.

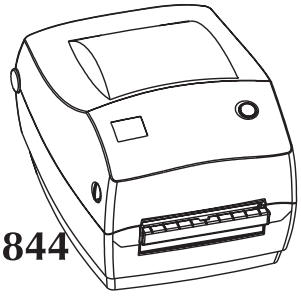
Unpack Your Printer

There are four models of printer. You have received one of these printers:

Direct thermal and thermal transfer printing

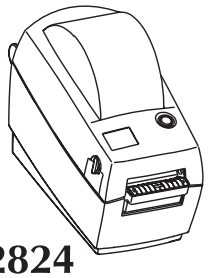


TLP 2824



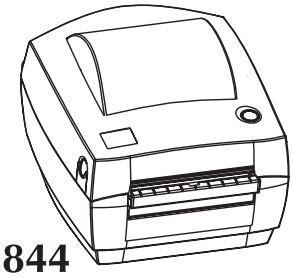
TLP 2844

Direct thermal printing



LP 2824

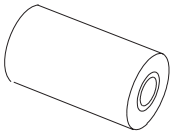
2" (50.8mm) *printing*



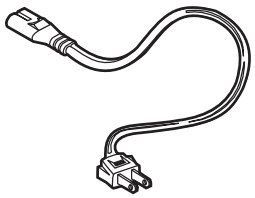
LP 2844

4" (101.6cm) *printing*

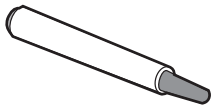
Additional Accessories:



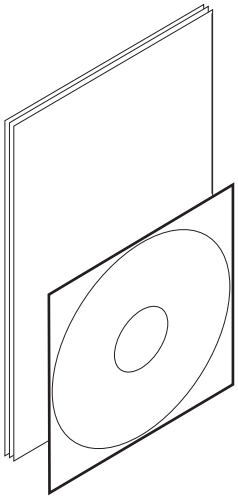
Sample Labels



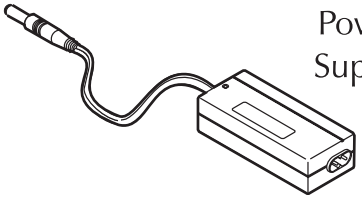
Power Cord



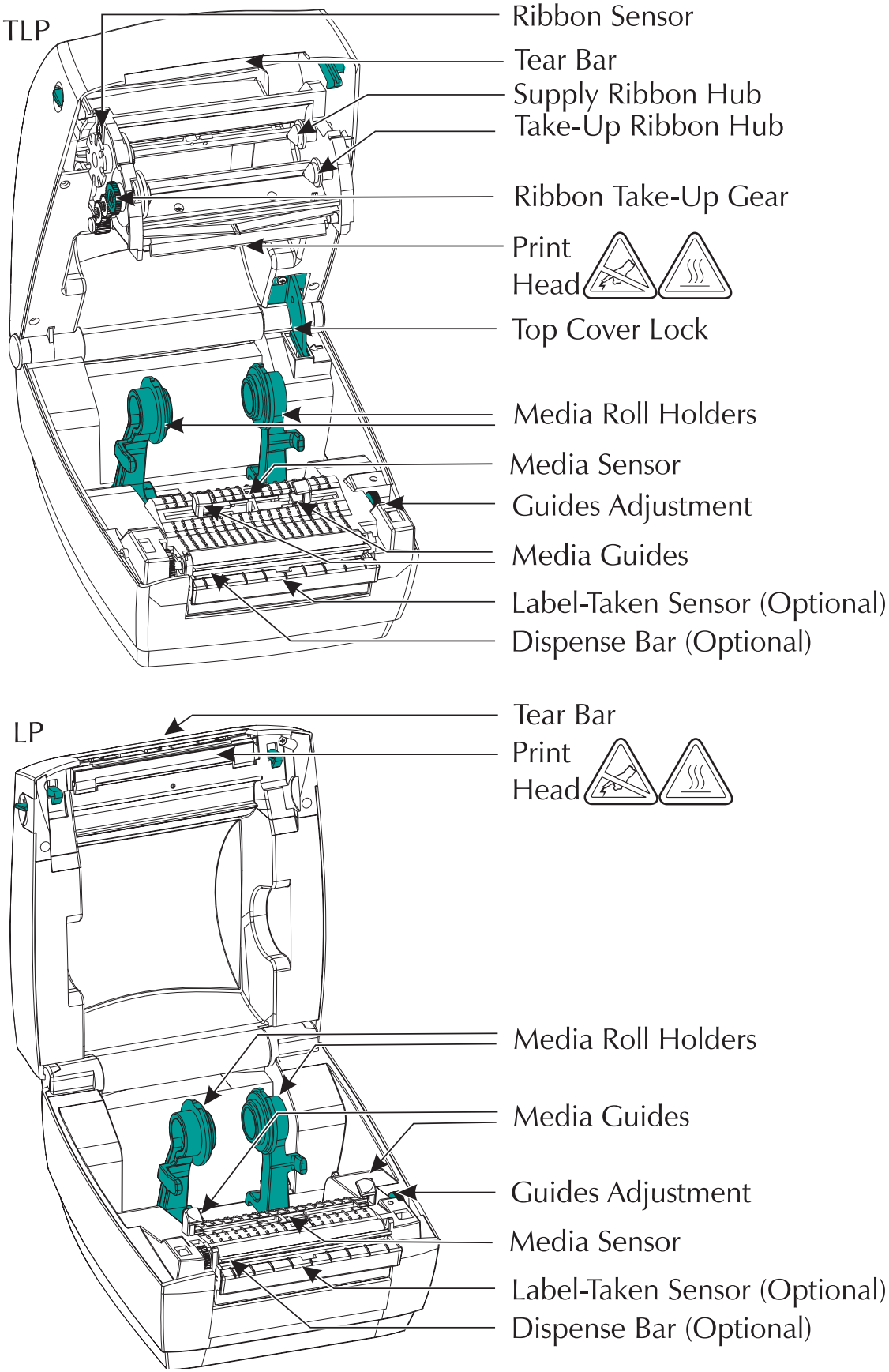
Cleaning Pen



Software and Documentation



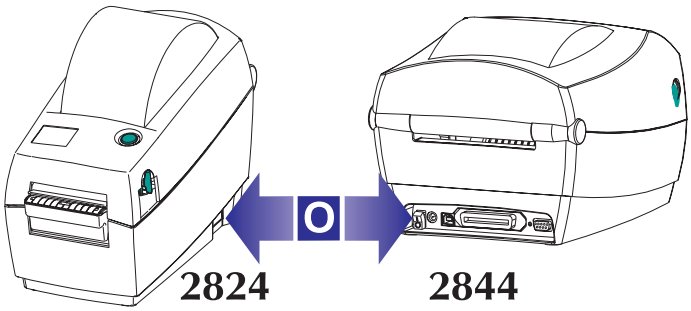
Power Supply


TLP
Ribbon Sensor
Tear Bar
Supply Ribbon Hub
Take-Up Ribbon Hub
Ribbon Take-Up Gear
Print Head
Top Cover Lock
Media Roll Holders
Media Sensor
Guides Adjustment
Media Guides
Label-Taken Sensor (Optional)
Dispense Bar (Optional)
LP
Tear Bar
Print Head
Media Roll Holders
Media Guides
Guides Adjustment
Media Sensor
Label-Taken Sensor (Optional)
Dispense Bar (Optional)

Installation The following steps will guide you through the installation of the printer and software.

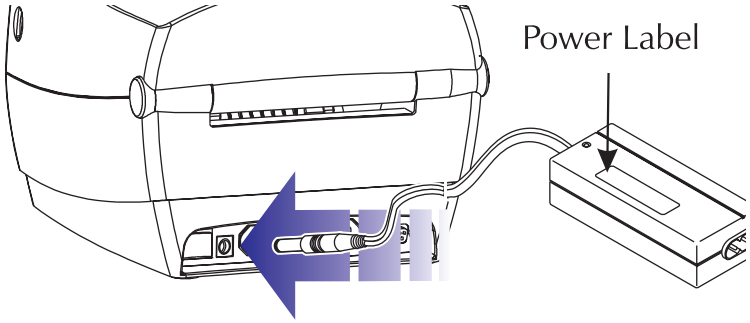
Step ❶ Attach Power Supply To The Printer

Power OFF

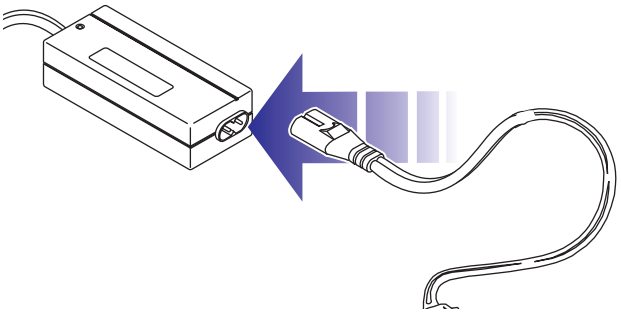


Check Voltage

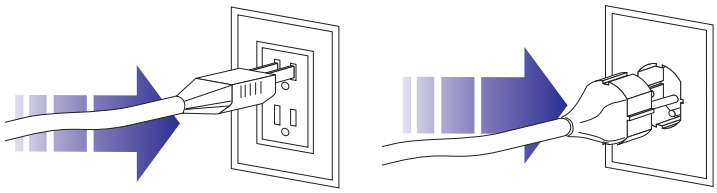
Plug in Power Module



Plug in Power Cord

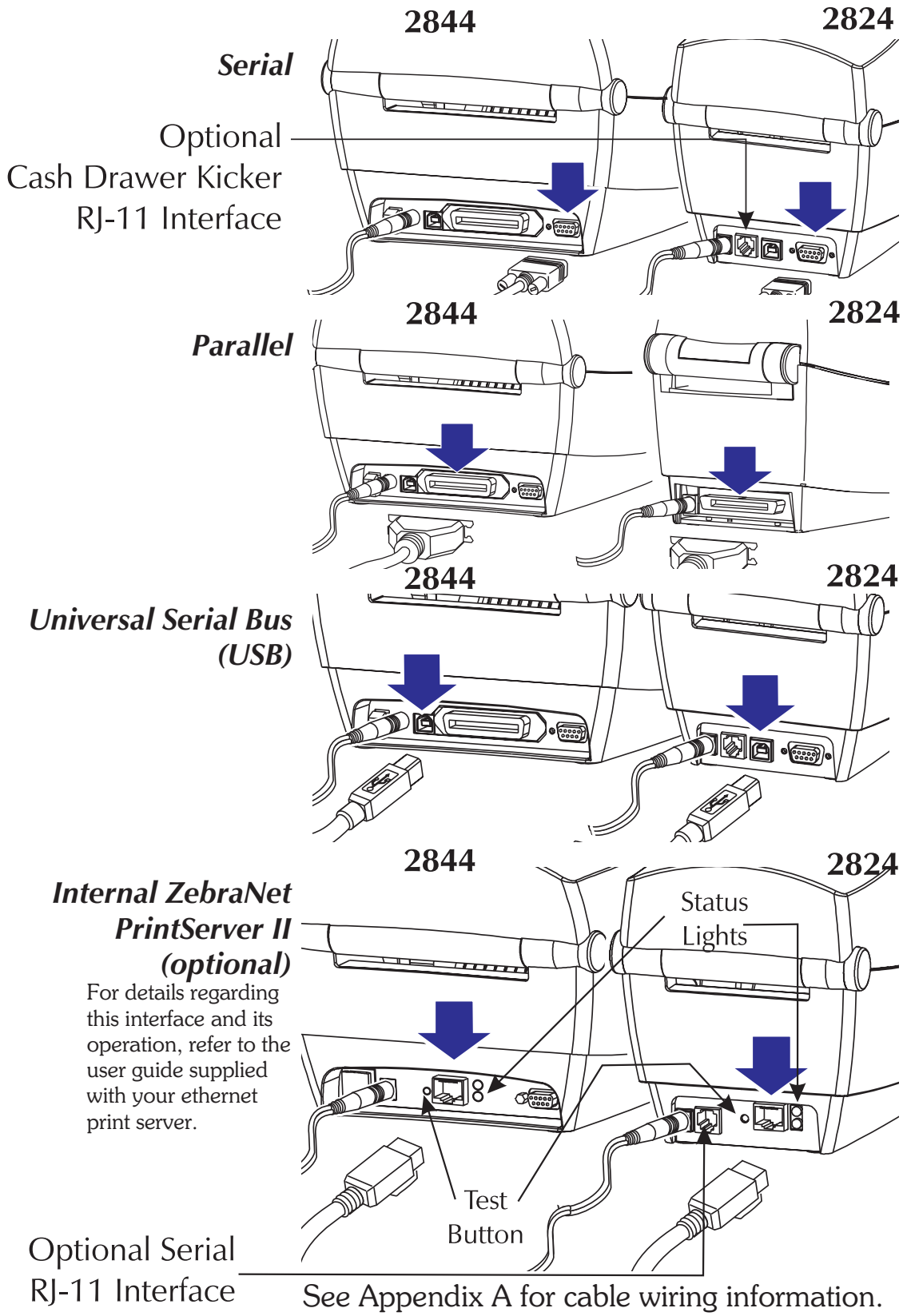


Plug Power Cord into a Suitable AC Outlet



See the SHOCK HAZARD WARNING on page iv.

Step ❷ Attach Interface Cable



See Appendix A for cable wiring information.

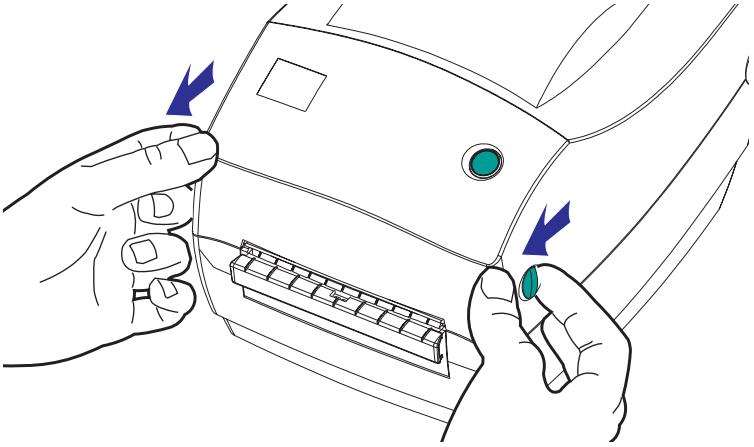
Step ❸ Load Media

Open Cover

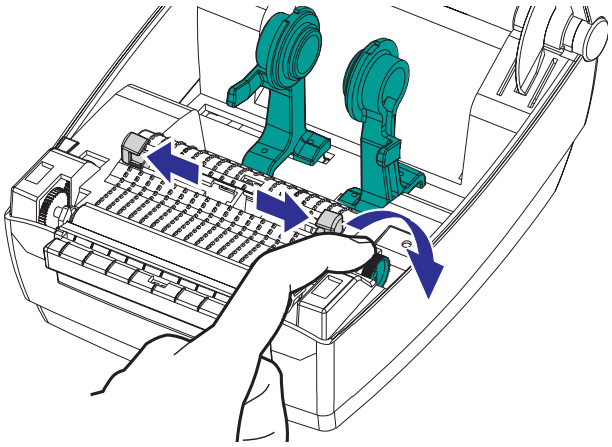
SHOW ME

LP 2844

TLP 2824 LP 2824

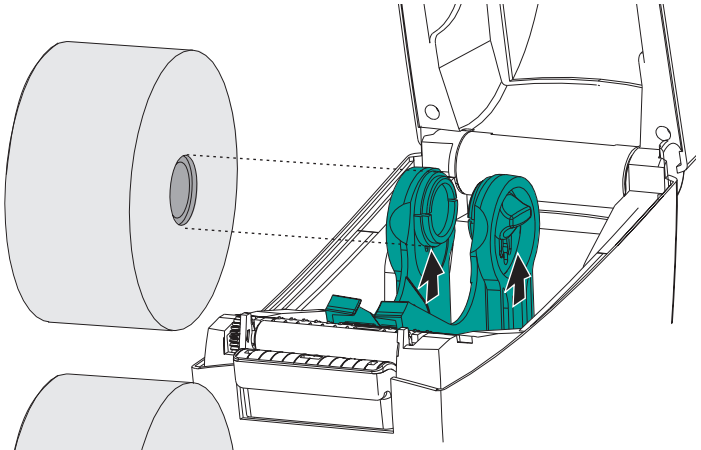


Open Guides



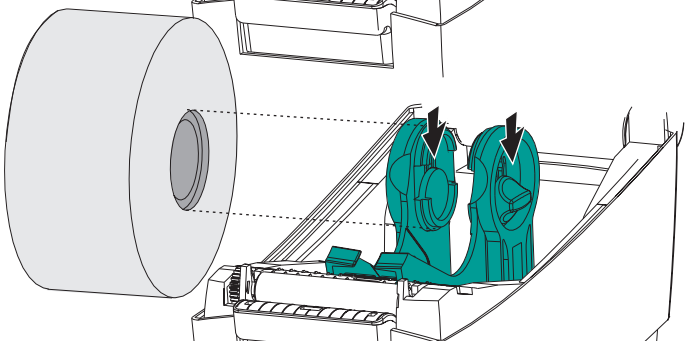
2824

Adjust Holders
1.0 inch
2.5 cm



SHOW ME

1.5 inch
3.8 cm

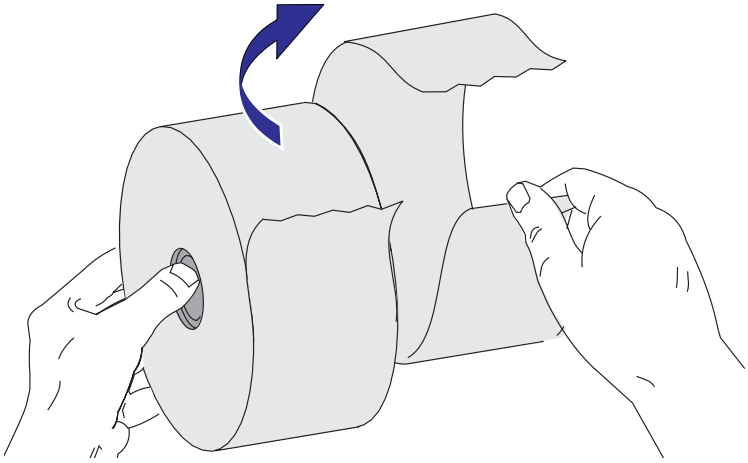


Load Media - continued

Remove the outside length of media

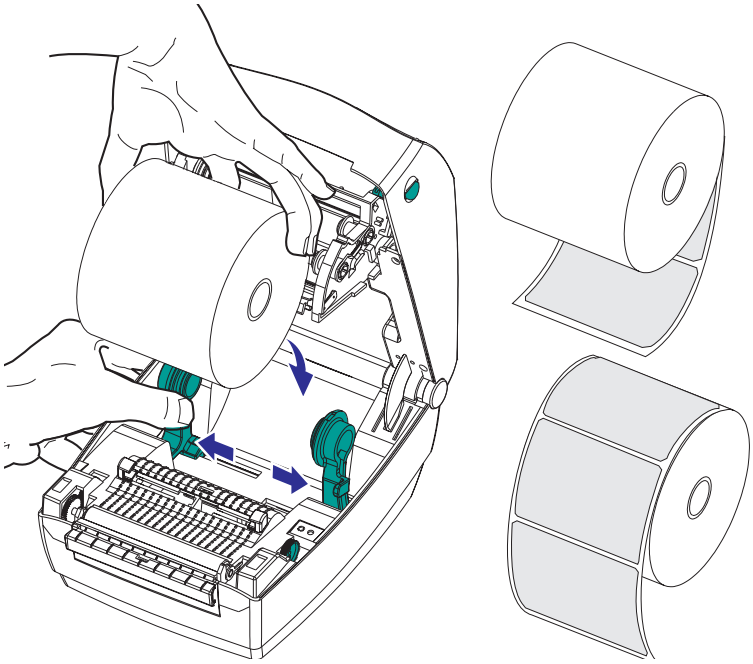
SHOW ME

For more information on media preparation, refer to Appendix A.



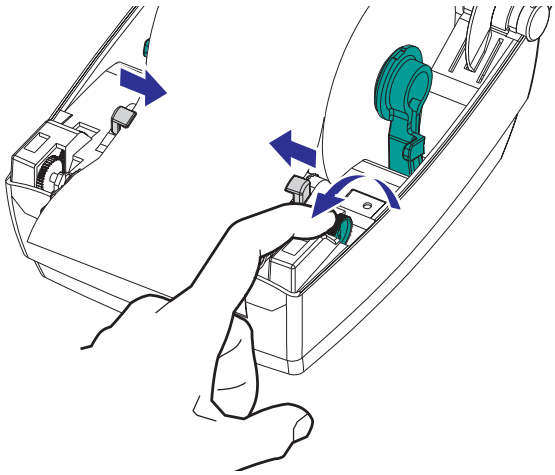
Install Roll

Note: Find the instructions for preparing media in Appendix A.



Close Guides to the Width of the Media

Note: When using linerfree labels, adjust the guides to the widest position



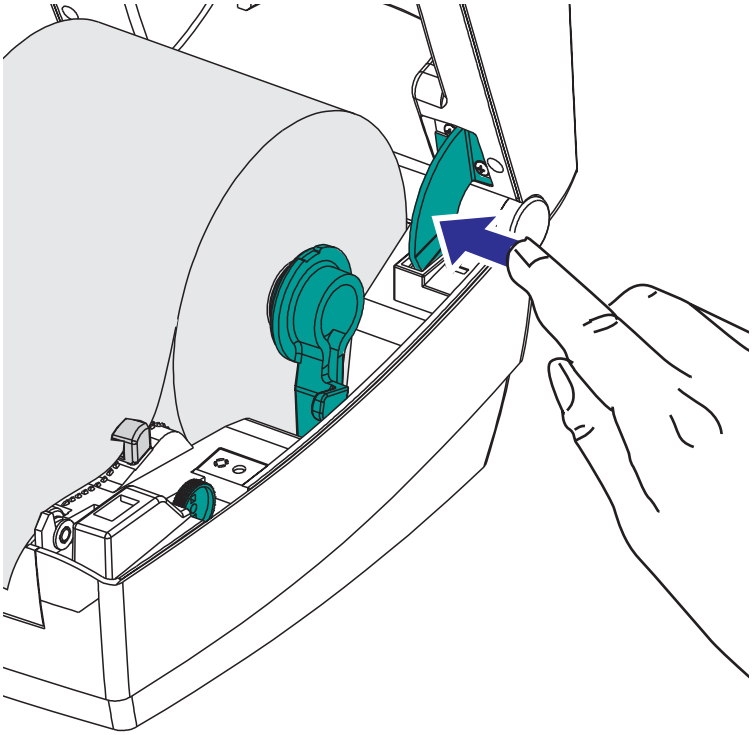
Load Media - continued

Release Cover

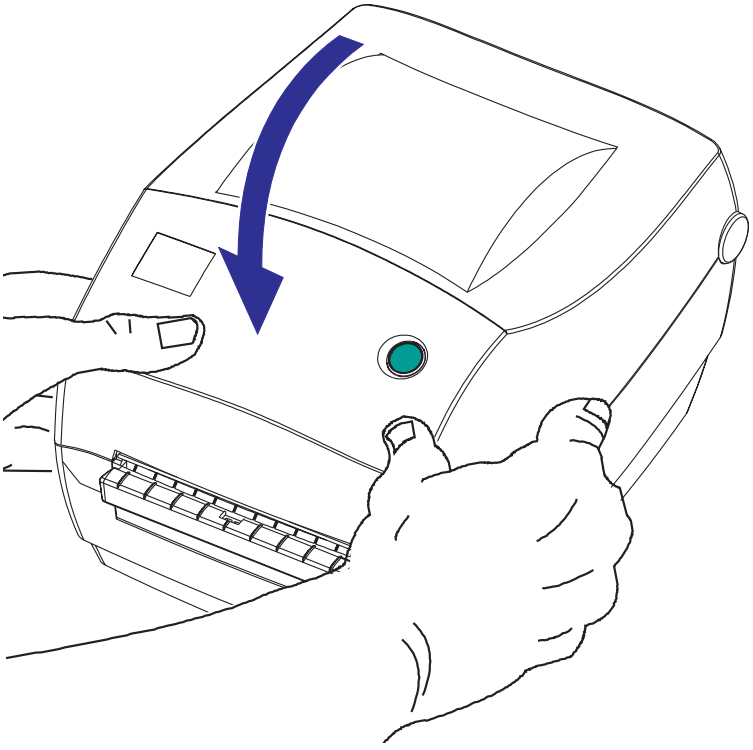
SHOW ME

TLP 2844 TLP 2824

Note: This step applies to thermal transfer printers



Close Cover



Step ❹ AutoSense Media Gap Sensing

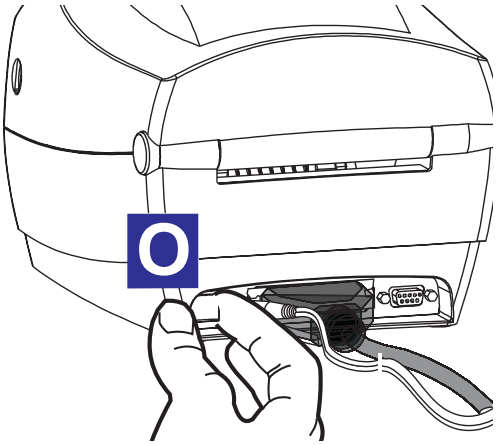
SHOW ME

LP 2844

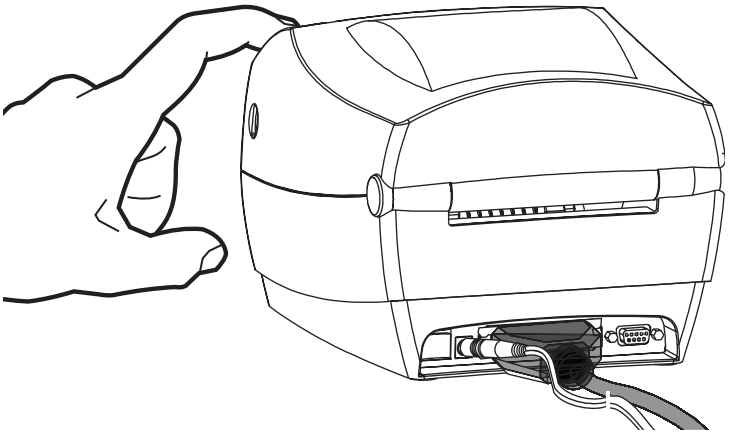
Perform this procedure when loading a new roll. If your printer has the label dispenser option, turn OFF the label taken sensor.

TLP 2824 LP 2824

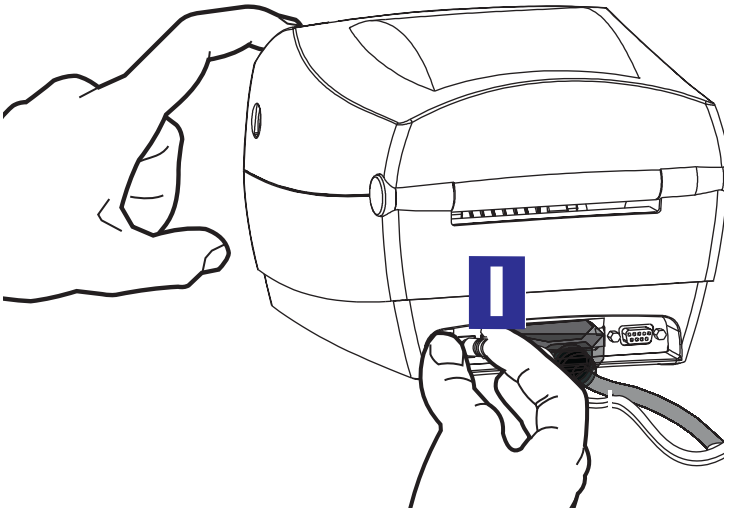
Power OFF



Hold Feed Button

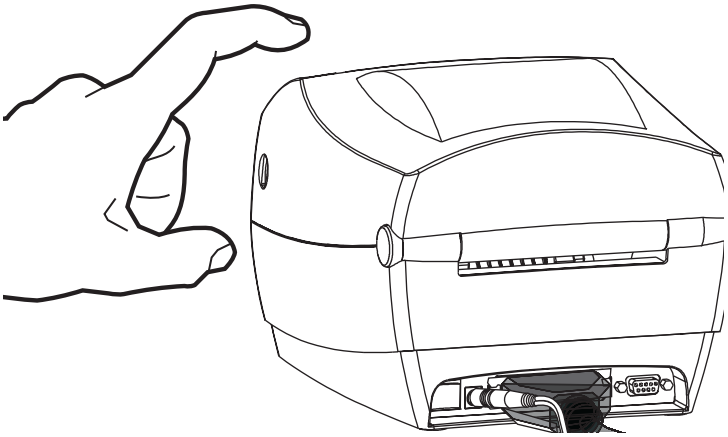


Power ON



AutoSense Gap Sensor Adjustment - continued

When Indicator Flashes, Release Feed Button



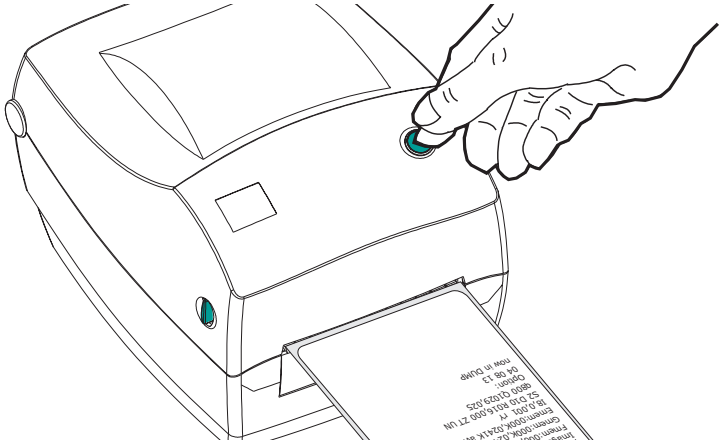
Printer Advances Media and Prints Status Summary

Note: Printer is in diagnostic dump mode

```
UKQ1935     16 V3.21
Serial port : 96,N,8,1
Image buffer size:1032K
Fmem:000.0K,016.4K avl
Gmem:000K,0593K avl
Emem:000K,0593K avl
I8,0,001  rY
S2 D10 R016,000 ZT UN
q800 Q01225,026
Option:
04 08 13
now in DUMP
```

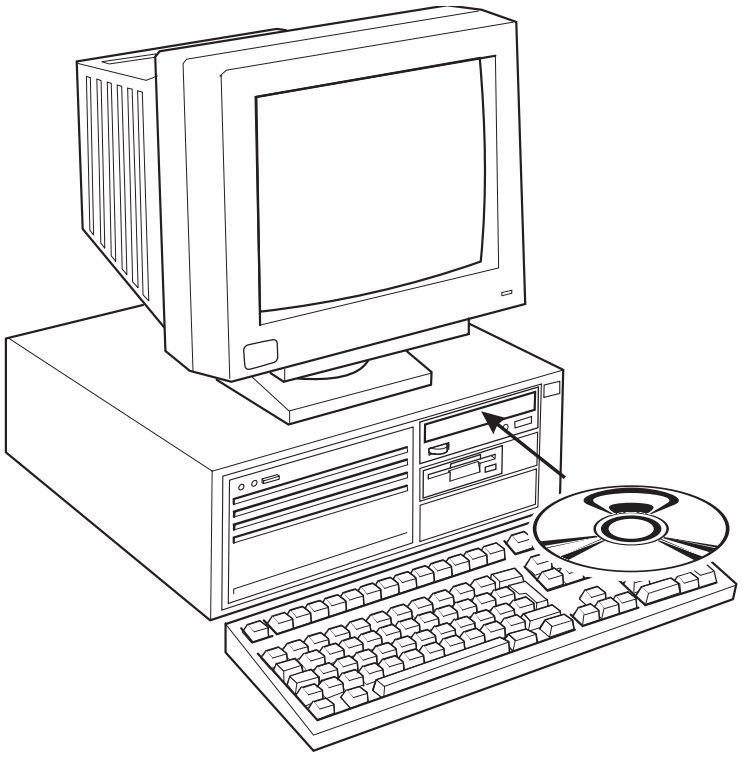
Tap Feed Button To Begin Normal Operation

Note: Printer prints "out of DUMP"



If the indicator remains orange or red, see the troubleshooting steps.

Step ❺ Install Software



Start your computer and follow the installation instructions on the compact disc (CD).

Operation

The following information helps you get the most from your printer.

Programming Commands

You must use programming to control many of the printer's functions. See the EPL2 programmer's manual for details. For example, the **Q** command controls form length and gap.

Printer Driver

The printer driver provides a convenient control to improve print quality. For example, Print density (darkness) is affected by the heat energy (density setting) applied and by the print speed. Changing both Print Speed and Density may be required to achieve the desired results.

Thermal Printing: Direct or Transfer?

You must use the correct media for the type of printing you require. When printing without a ribbon, you must use direct thermal media. When using ribbon, you must use thermal transfer media. The printer's ribbon sensor detects motion of the supply spindle.

Replacing Supplies

When replacing media or ribbon, do not turn off the printer or data loss occurs. The printer automatically resumes printing after you load new supplies.

2
Using Options

This section provides information on the printer's optional features:

- thermal transfer printing
- label dispenser
- fan-fold media
- media cutter

Using Transfer Ribbon

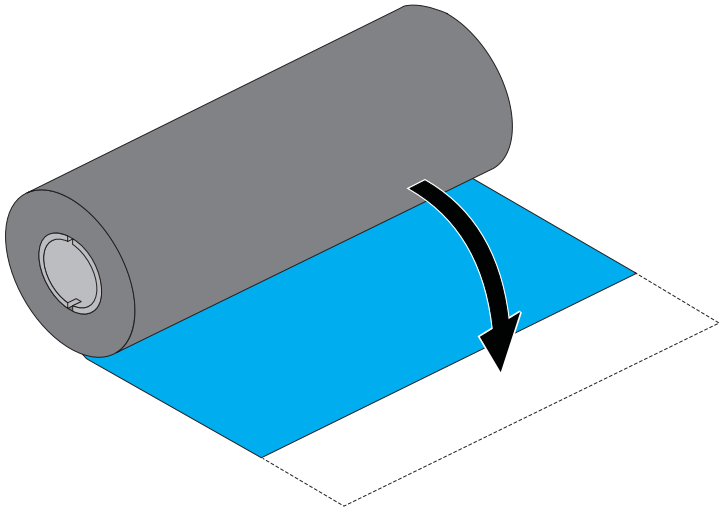
The TLP printer supports both direct thermal media (chemically treated to darken when heated) and thermal transfer media (accepts wax and/or resin transferred off a ribbon).

Step ❶ Prepare Ribbon

Pull Adhesive Strip Free

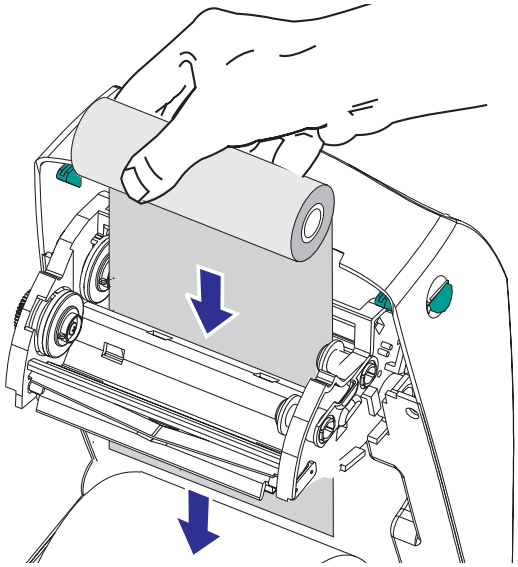
SHOW ME

TLP 2844 TLP 2824

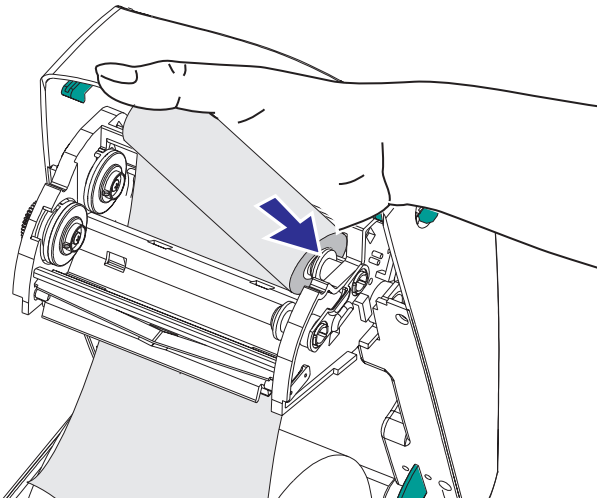


Step ❷ Install Supply Roll

Thread Ribbon Through Carriage



Press onto Hub



Align Notches onto Hub Spokes